Intt. Fever A Dissertation, Paper Mank gthe W. 8. 91 Intermittent Fever. Draw Submitted to the examination of the, Medical Faculty University of Pennslyvania, For the Degree of Doctor of Medicine, by. Fisher James Snow.

In Inaugural disputation, being required of every student of Inchesine in the minerstly of George students, in order to comply with this pronunced requisition I am indirect to offer the following the servicions, in Substructions, the following the servicions, that I have the a sufficient spelegy for any imperfections that may occur in this Invenile attempt.

Betamittent, is applied to that kind of hour which consists of a succepien of parcy, must between each of which there is a distinct and perfect intermission from fabrile symptoms, or an approxial period.

Liferent names have been applied to this four, according to the distance of time observed between the periods of its return. When it comes on within the space of townsty four hours, it is called a Quotidian;

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When it returns every other day, or there is a space of forty-eight hours, between its attacks, it is called a Tertian; and when it attends on the first and fourth day, with an interval of seventy-two hours, it is named a Quartan. The Tertian type is most apt to prevail in the spring, and is the most frequent form of the disease. The quartan principally prevails in autumn, and is the most obstinate and dangerous form of the disease. The Quotidian is more apt than the others to assume the continued type. of the Quotidian, Tertian, and Quartan Intermittents, there are several parieties and forms; as the double testion, having a paroxysm every day, with afternate paroxysms similar to one another. The double tertian, with two paroxy sus on one day, and another on the next; The double quartan, with two paroxysms on the first day, were on the secand and third, and two again on the fourth day.

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The double quartan, with a paroxysm on the first day, another on the second, but none on the third day. The triple quartan, with three paroxysms every fourth day. The triple, with a paroxyom every day, every fourth paroxy, m, being similar. Then this fever prevails in the storing of the year, it is called Tanal; and when in the Autumn, Autumnal They often prove obstinate, and are of long duration, in warm climates; and sometimes resist every mode of cure, so as to become very distressing to the patient, and often give rise to other chronic complaints, but more particularly anasarcous swellings and enlargments of the Liver, or Spleen. There are other forms of the disease, as Quintans; where the fit does not return until the fifth day, Septens, where its return is not until the seventh day, Novans, Where the intermission continues until the wintheday. or into Lextans, betans, and Lecans, which prolong their intermissions until e site Vie - keer 110 a late gran let, gar 9 car Cusa ita · as

the stirth, bighth, and winth days. It seems to be generally acknowledged, that sharih Miasimata, or the effluria arising from stagnant water, or marshy ground, when acted upon by heat; are the most frequent exciting cause of this fover:

We are not acquainted with all the circumstances which are requisite to render marsh miasmata productive of Intermittents. According to observations made in formy distriets; it has been ascertained, that marsh mine sma, when much diluted with aqueous oxhalation, as in summers where an unusual quantity of rain has fallen, are nearly mert; but when arising from stagnant waters of a concentrated foulness, in consequence of great drought and heat in the latter end of Summer and the early part of Autumn, they act with great violence and malignancy. he admitting the powers of marsh effluria



to produce intermittents, we ought not, to look on them as their universal cause, since it is found that persons residing constanthy in the most healthy part of cities, and far remote from marshes, are sometimes attacked by them. The testimony of unquestionable writers, proves that fibrific miasmala may arise, under certain conditions, from almost any Toil, and these febrific mias mata may be wasted by currents of air to a distance far exceding what has been generally admitted apon this subject. The heavenly bodies have been supposed by some physicians, to have a considerable influence on intermittent fovers, particularly in warm climates. In Lind mentions, that eight seamen were seized with a return of their fevers exactly at the moment of the beginning of an eclipse; and others have cited cases where persons have been seized with intermittents

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at the full and change of the moon. Many of these observations have, however, on a more particular scruting, been refered to the tides, which, in warm climates, sometimes rise to a prodigious height, at the new and full meen, and leave a great extent of marshy ground, the exhalations from which excite the disease; and it has been found, that by romoving to a proper distance from these, the disease was prevented, although the influence of the moon remained the same. Seople in warm climates usually take their exercise early in the morning, or in the evening, being prevented in the day by the exceptive heat; the cool and damp air, to which they are thereby sposed, often produce fivers, which have abourdly bun attributed to the influence of the moon. A similar explanation may be given of the influence which the winds are suight to have on feners; In marshy countries they produce

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intermittents, when they blow wer the marshes, and cease to spread when the wind changes its direction. A watery, poor diet, great fatigue, long watching, intemperance, grief, much anxiety, debility, exposure to cold, lying in damp rooms, or beds, wearing damp cloathy, a warm, moist, or cold, damp atmosphere, the suppression of some long accustomed evacuation, the reception of Euptions, and preceding disease, have been ranked among the exciting causes of this fever, but it is more reasonable to suppose that these act only by inducing that state of the body which predisposes to these complaints. one peculiarity of this fever is its great suseeptibility of a renewal from very slight causes, as from the repetition of the original execting cause; It would appear likewise, that a predisposition is left in the habit, which favours the recurrence of the disease.

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I deranged state of the stemach and prima bia is generally considered to be the preximate cause of an intermettent forcer.

The paroxysms of an intermittent are divided into three stages, which are called the cold, the hot, and the sweating stages. The cold stage commences with languer, a sense of debility, and sluggishness in motion, frequent youring, and stretching, an aversion to ford; The face and extremities become pale, the features shrink, the bulk of every external part is diminished, and the skin over the whole body appears constricted as if cold had been applud to it; At length the patient feels cold, and universal rigours come on; the respiration is short, frequent, and anxious; the wine is almost colourless, sensibility is greatly impaired; and the pulse is small, frequent, and often irregular. In a few instances, drowsiness and sluper have prevailed in so high a degree,

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as te resemble come, or apopleys, but this is by
the meanst usual. These symptems
abouting after a short time, the second stage
commences with an increase of heat over the
whole body, reduces of the face dryness of the
skin, thirst, pain in the head, throbling in the
skin, thirst, pain in the head, throbling in the
skin, thirst, pain in the head, throbling in the
skin, thirst, pain in the head, the chiratimples, angiety, and restlepiness, the respiration esfulled and may be but buy becomes hard,
and full; If the attack has been very severe
kloriam may arise.

When those symptems have continued for some time, a moistine breaks not me the forchead, and by degrees becomes a sweat, and this at length extends over the whole body; as this sweat continued to flow the head of the ledy pedates, the tribest ceases, the write of the ledy pedament, the respective is free and full, and most of the functions are restored to their ordinary state.

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This disease prevails in different degrees in differint persons, the series of them may be more or left complete; the several stages, in the time that occupy, may be in different proportions to one another. After a specific interoal, constituting the intermission; according to the species of the ague, a pash parorysm communeus in the manner before described. There has been known to take place on the attack of an intmillent, such a prostration of shingth as to cut the patient off at once, but this seldom happens. Palients are selden destroyed in intermittents, from general inflamation, or from a fulness of the repoles, wher of the brain, or of the thorneis biscura, as semetimes happens in a continued fever; but when their duration is of any length, they are apt to induce other complaints, such as lop of appetites flatule ney, seirchus of the Liver and Spleen, Dropsical swellings, and general debility, which, now and then prove fatal; in warm climates

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particularly, intermittents are apt to terminate in this manner, if not speedily removed; und in some cases they degenerate into continued fiver. When the paroxy, sms are of short duration, regular in their recurrence, and leave the intervals free, we may expect a speedy recovery; but when they are long, biolent, and attended with much unxity and delirium, the event may be doubtful. Other unfavourable symptoms are, great prostration of strength, vertige, fated exerctions, the presence of Systentery, Cholera Morbus, Enlargement of the liver and spleen, inducing Gropsy or Saundice, and convulsions occurring during the paroxy sm preceded by coma. Examinations, of those who have died of intermittent fever, show a morbid state of many of the biscera of the Thorax and Abdomen; but the liver, epileen, and Medentery, are usually most

officied. The indications of cure in the treatment of intermittents, are, first, to put

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as speedy a step as possible to the fit, when it has taken place, and, seemally, during the interm ission to prevent its return, at the usual, or any after period, by exciting a new action in the system, by administering certain remedies at the commencement or immediatly before the acception of the cold fit; thereby destroying the morbid Mate of the system induced by the cause of the disease, and by invigorating the body. Leffect the first of these intentions, it is proper to have recourse to warm diluent liquids, artificial, warmth, the pediluvium, formulations to the feet, and cordial diaphoreties. Thinn given before the expected paronym, or after it has taken place will generally, put a stop to this stage or greatly miligate it, and before the hot stage, and bring in the sweating stage; The dose of the lineture is from thirty to hinety drops for an adult, and of spinn from me to three grains. A few minutes after the exhibition of the opiate,

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there is generally an exhibitaration of the Spirits, which in general is quickly followed by a relaxation of the surface, the countenance, looks churful, and a flush is spread on the chuk, The pulse, from being weak, quick, and some times irregular, becomes less prequents full and equal; an agreeable warmth is diffused over the whole body and every disagreeable feeling banishes; Heef now and then follows a large dose, this seldow huspens. On the return of the parexysm, on the following day or not, according to the species of the intermittent, it will be proper to repeat the chiate, in the same manner as before, and it will in general be attended with equal succeps; so that the patient will selden experience much trembling or shaking. In g Dawson, says he used the following prescription with more success than any other Medicine; & Subcarbonation Ammonia. Camphorain grana-, Confection romatica or double. M. ft.

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Julphuric Ether given in the quantity of a drachm for a dose, on the approach of the cold fit, has been found in some instances to prevent the acception of the hot one; to be repeated on the approach of the next fit, back and the other tenies are to be given in the intervals. We are informed by Dr. Hellie of the good effects of compression by the towniquely, and several instances are given of this fact; the plan pursuch by him was to apply the instrument in one thigh and on the arm, of opposite sides, at the same time. In two minutes after the application of the lourniquels, the shaking and other symptoms of the cold stage entirely ceased, a wild hot stage was induced and the patient found himself quite relieved; After suffering the instruments to remain on for about fifteen minutes, they were removed, and the cold symptoms did not return. By administering an emotic immediately before



the accipient of the cold slage, we may simulines be mabled to dultry the merbed state of the system, and there by provent a return of the parecysms. It there was me speaking of affusion of cold realists says he has tried it, two or three hours before the says he has tried it, two or three hours before the success. In morbid catenation in these fevers has been broken by putting the patients under a copious shower bath in the host plage of the parecysm.

He may presume, that by the before mentioned remoders, we have a knowledge of powerful muticus for culting what the celd stage of an intermediation, and of rendering the hot, stage both milder and of fundation dient time of els return; I heald so, he does not adopte mild in bury colorisms, and the fibrile stylightmestic in high, we may then advise the the sut of disaphoretics, in small and prequently repeated detal; It have himself a fundation, and detal; It have a fundations and such a full the submatter of the such a full and full to the submatter of the such a full and full the submatter of the such a full and such as the such a full and such as the s

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Montha Zi. Justris, Antimoni gry. Lyrup Zir Inft. Haustus to be repeated every two hours. br-Sht Nitri Queleis 3; Vinien Intimoni 3 fs. M. ft. haustus to be repeated every hour . Or Outer Spocac. Comp grv every hour and to morease their effect, the patient should be directed to drink frequent thy of tepid drinks. Where there is nausea and vomiting, the Stomach may be cleanded with chamomile tea. If attended with a cough, and pain in the side affecting the breathing, we may recommend the application of a blister; and should they experience no relief from the remedy, and if there is inflammatory action, It may not be improper to take awaya small quantity of If the head becomes much affected either during the paroxysms or the intamisions, the application of a blistor to the back of the heck, and luches, or cups to the temples, will be most proper.

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Ir. Lind is an advocate for the exhibition of opium in the hot fit; he tells us that when given half an hour after the communement of the hot stage, it generally afforded immediate relief, and he observed the following effects to ensue: First, It shortened and abated the fit; and this with more certainty than an owner of the back was found to effect the Disease. Lecond, It generally gave a sensible relief to the head, took off the burning heat of the fever, and occasioned a profuse sweat, this sweat was attended with an agreeable softness of the Skin, instead of the burning sensation which affects patients sweating in the hot stage and was always more copions than in those who had not taken opium. Thirdly, It often produced a soft and represhing sleep to a patient tortured in the agonies of the fever from which he awaked buthed in a sweat, The Doctor observes, that the effects of opium are more uniform

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in intermittent spever, than in any other disease, and its effects are more quick and sensible than any other medicine and preserves the constitution se entirely uninjured, that, since he used opium in agues, a Droposey or Janudice has seldom attacked any of his patients in this disease. When opium did not abate the symptoms of the fever, it never increased their violence; on the contrary, most patients reaped some bonefit from an spirate given in the hat fit, and many of them bore a much larger dose at the time than they could at any other; And he offers it as his opinion, that opium in this disease is the best preparative for the back, as it not only produces a complete intermission, in which case alone that remedy can be safely administered, and occasioned such a salutary and copious evacuation by sweat, as generally to render a much less quantity of bark requisite. In emetic or purgative is generally hecepsary,



as a preliminary measure; to cleanse the prima Via, before the exhibition of the bark; besides the wacuation of the prima via, Venesection is occasionally demanded; in the commenoment of this disease, there is commonly more or left, inflammatory action; without the lop of blood in such cases, the back would propably be rejected, and consequently of newse-or, if retained, it could only have the effect of aggravating the disease. When we obtain an intermission, the Cinchon a bark is to be given in large doses; true or two drachms, of the powder, may be taken every hour, if the stomach will bear so much, as the benefit to be expected from this medicine, greatly depends on a large quantity being administered in a short space of time; five or six ounces of back taken in a few days, will be attended with a much better effect than perhaps as many pounds taken in the course

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of some weeks. It it will not sit easy on the stomach in substance, we must be content to substitute a decoction, infusion, tincture, extract, so The sulphate of Luinine, is a good preparation of the back, for children, and these persons of a weak and delicate or irritable stomach, Dose one grain three times a day. cuery h Hall the forms which have been mentioned should be nauseated and rejected by the Memach, we may advise the back to be given in clysters, for this purpose, about a drachm of its extract, dispolved in a sufficient quantity of water, or two or three dructions of the powdered back, in the smallest quantity of mucilage of Jun -Arabic, Starch, or flagsed, sope that it may sperale as slightly as possible, as an extraneous Minulus, and, to do away irritability, it is proper to add a few drops of landamine cach time. With children who cannot be prevailed in to take the back, we may administer dwith much

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efficacy in this way, repeating the elyster every four hours. In the external application of the back, different modes have been proposed. Baths of a warm decedion, either as a pediluvium, semicupium, or large enough for the immersion of the whole person except the head. It has also been applied in the dry state; Janon, says that if the powder be strewed abundantly in a bed, in which a patient lies, it will cure ague and four. The back jucket is another form dapplying it, and it is said to have done Some good. In most intermittents it would perhaps be prefrable to unite opium with the cinchena, as it would enable the Howach to bear a much larger dose of the latter, and likewise increase its good effects. Various substances of either an astringent, or arematic hature, Such as alum, king, and the barious preparations of iron, butmegs, cloves, and make-red, we have been joined to the bark, with

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a view of increasing its powers; but as these lepsen its dose by their bulk, it will be best to give it by itself, unless it occasions a purging, and then about eight or ten drops of he Ohii. or a druchm of the h. Kine. may be wilded to each dose. On the contrary, should it produce costiones, some gentle lavative may be taken occasionally, In intermittents of long continuance, when the person is advanced in years, and weak, the habit phlegmatic, the season rainy, and the situation damp, it will be proper to make an addition of makeroot and some warm aromatic to the chichona. A Bulo Cort Acraw 3/s. Pulo Gerpentaria Virginia 35. Carbonates Soda ved Potafs grxs. M. ft. Oule his ix to be taken in the course of the day. Or if we want a more powerful Almulant A Pulv Cinchona 1/2. For pentaria mi Canal 25 Lingiber 1/3, Carbon Fodavel. Potapi, 3ii. M. ft. Bulo lit XVI. one to be taken every hour or two during the intermission.

erig when bed is White 190, or if we want an afteringent joined bed, Algum-Ring in Tulocost Down if to worthing in the fiction in Dulo ht XI inc to be laken every hour or two during the intermission.

In cold climates, it will in general be advisable to wait for a perfect and regular intermission before we give the back; but in warm climates, where intermittents are aft to degenerate into continued fevers or residently, and, in, which the habit is more irritable and weak, it will be right to administer it, even on the most unperfect intermission.

And it will not be sufficient, that the recurrence of purey pant to slighed for once or twinty a use of the back, a religious is commonly to be expected, and it whould therefore be provented by a continuance of the medicine of proper intervals; for some days or some needs after the disease appears to be removed, also in damp weather and during the prevalue of an easterly wind.

Ut h maje buile Se tobe

There are no left than twenty-five distinct species of cinchona, independent of those added by Homboldt and Boupland. The red or cinchona blongifolia Yellow or cordifolia. Pale or lancifolia one the three in use, but a decided preference is given to the red, and yellow. It is stated that the last is bitterer, and more astringent, than the other sorts; the decoction and infusion ofit are less liable to undergo formentations Quastice has been used as a substitute for the cinchona, it is very inferiour, and is usefull only in the convalescent state, where a simple bitter is wanted. Cusparia Febrifuga or Cort Augustura, is used sometimes, and with some success, dose from a scruple to a drachmy Invictenia Lebrifuga, a species of Mahogany, se called after, Van Switters, was greatly extelled

by It Revourgh in intermittents; he says that its bitter and astringent qualities are more

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intense than those of the circhona, it's active parts are more soluble in watery menstrums, and are not so aft to shoil, shiritous and watery preparations of it bear being mixed in any proportion without decomposition; and it's antideptic powers are stronger. As a tonic and febrifuge, the comus florida, mid cound cericea. or, dog-wood, red willow; red rod, so, have been much employed and with considerable success in fever and ague; The back of each species of the Cornel may be given in any of the forms in which the cinehoua is used, and in the same dose. Serpentaria Virginiana, is not much used by itself but in combination with bank it is in general use, Tydenham, says, as a general rule, in all cases where wine is required with back, the effect will be greatly increased by adding scrpentaria, Dose from twenty to thirty grains.

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The radix rhatania is another substitute which had been proposed for the cinchena; twenty-grams of the powder for a dise.

Eupatorium Perfetiatum. Thoroughwort. br Bone- Fet is a remedy generally employed in this fever by the poorer clups of vosity; and very selden fails of effecting a cure, it may be given indiscriminally in any stage of this fever; by different modes of exhibition, it proves tonic emetic, purgative, digretic, and actively diaphoretic; given as a warm beverage, either in infusion or decoction, on owner to a pint of bailing water, give a wine glass-full every fiften minutes, it will puke, or stimulate, the surface, or kidneys, in cold decection, or what answers better in powder, it hardly over fails to evince tonic effects, in doses of from twenty to thirty grains every two hours; it is the very best substitute, for the cinchona in intermittant fever. Charcoal is a considerable tonic, and is much

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employed by the physicians in sicily in the cure of intermittents; and where it is complicated with diarrhaa or dissentary, and with much success; It is administered in doses of from a scruple to a drachm, during the apyrevia, observing in every respect, the same rules, as in the employment of the cinchona. In intermittents, where from flatulency, distention of the abdomen, or retention of faces, it becomes necess ary to have recourse to laxatives, we may employ sandthing of a warm aromatic nature, which should be taken during the intermissions, so that its operation shall have ceased before the acception of the hext. & The Bhei 3is Refus, Senna 35 It Lavenets Comp, 3; In. ft. Haustus.

A often happens, when intermittents have continued a long time, that their hateliss of the Liver and There have place, which are outgarly deserved instead agree-cakes, these complaints have been altributed to an improper use of the cinchena;

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but they evidently wrise from the great quantity of blood which is thrown on these parts during the cold fit, they are often difficult to remove, although a stop is put to the fover; In such cases it will be proper to give deobstruents. A Nitriciacidizi h Cinchona Comp. Ziv. To Abridant 3/2. Syrup, Simplizing Zii M. ft to be taken in the course of the day. Athis fails we must have recourse to moroury; a small dose should be taken every hight, the as just to affect the mouth of Jubiniriation lydrargyri grii bhiim gri te be taken at bed time or Blue pill grinopinger to be taken as the former. If the patient cannot take this medicine interwally, we must substitute its external use in the form of denotion, rubbing into the ground about a scruple, of the unquentum hydrargyri forting every night at bed time; Moroury, it is sayed, in some cases has proved unexiccelsful in these inlargments, which have afterwards been removed by other remedies; two

24/ mu n White Wir. my 7 ting ut us May 4 cases are recerted by Le Grifith which resisted the movement treatment, and were afterwards removed by the Success souther status conic does half a grain to three grains, three times a day of the provided leaves, gradually increasing the disc, untill stone berry positive effect is produced, and the only corcumulances, which call for a reduction of it, are giddings, because, a purging; when these come on, we must omit the medicine for a time, or leften the quantity.

Shisters he doubt would prove highly burguint applied as a precontive of the parcygom, when he managed as that the full impression who will be felt at the acception of the parcygom; their mode of action in the our of this distraction, mode of action in the our of this distraction, they are related when they preceding, interrupting the trains of merbed appreciation, countil uting this form of fever, so as frequently, to but an end to the worst cases of it; they are more demanded, in those cases of

melos madically inoversing the date untill day i110. 1 inte were proviling espect ist produced, and the mile in the Litrus mis 1 land ; le tres the de Men the par rope ad to the woodle and who is withe

the disease attended by entered congestions, or indurations of a painful and inflammetry nature, little indeed will times avail, untill such obstructions are removed, and with this view, a sucception of blisters over the affected part night never to be neglected.

Scirrhus of the abelianinal biscera, by prefiing on some of the ducts which carry bile ibstract it from getting into the ducedenium; it is therefore abserved, and produces Saundice, without any concernitant deophical stymptim; a along with it askelled, when that happens the disease frequently proves fetal. The disease frequently proves fetal. We be traduced in such cases, should be biromove the scirrhus, which is to do do by the whitim of surrous, and the application of blisters were the part.

Exploy writes demotimed from debility, and it recommend by the bong continuous of the disease wither cases it may be removed by the use

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of cinchona together with stomachie bitters, diureties, and chalybeates. When diarrhaa accompanies - disease, it sometinis proved more severe during the intermissions; and left severe, or ceases ultogether, during the time of the paroxipson. In the cases it is most severe in the parogyster Such diarrhau tends to increase the weakness considerably, and not unfrequently occasions dropsical appearances; At first, adematous swellings appear in the lower extremities; these increase, rising up to the thighs, and then to the integuments of the abdemen; Ascites, may also take places of astringent remedies be employed, so as to put a Stop to the diarrhaa, the differient appearances usually increase; and the interwithent continued to recur, although often bory obscurely, and very irregularly. If the diarrhad be permitted to go on, or if it has been stopped, and is allowed to return by leaving If the astringents, the weakness increases

Ledio eting lest i Haut, brata roside tru h sie 1 Mil lang & deen petine wing Sure; ase 1 in such a degree as to destroy the pratient. If the cinchena be exhibited, it often increases the discretion as without having the effect of prounting the aregular returns of the atlants or conventations

Si this ease, In Pordyce says it, will be bedt to clear the prima via, by pemploying about twenty fore grains of rhubarl after its operation is were, to exhibit conchana in pretty considerable quantities, stock as a drawfur many three hearts, and to give at the same time a grain of specacuanha with fifteen dreps of to this together with a moderate quantity of any warm spice, every four learns. In some cases of intermedical vehicle have

continued a great length of time, earing to their continued a great length of time, earing to their have been neglected in their beginning, or where the cined man, has failed to present the distinct offer, preparation of new and opper have been administered with succept.

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The byydum Linci, given in the done of live grains thrice a day, has removed obstinate intermittents when the usual remedies have failed. The Sulphate of Line has been used likewise with some success. The Julphate of Copper, given in doses of a quarter or half a grain every four or vix hours, is also said to have proved very effications in some cases of obstinate intermittents; A Sulphas Cuprisight grains, ext last Ceruve Lexty-four grains, Tyrup 9: 5. In Mir in full Thirty-two give me four times a day. Enfrum lemmoniatum has been given as a tonic with advantage. Be cuprim humanistic. is ext Cort Cinchena Zir Fyrup of S. M. ft. Hiv ru pill ha twenty-four, take two or three every night at bed time gradually increasing the dese. Arsenie has been strongly recommended as aremedy in intermittents, and is undenttedly a very powerful remedy, and Thave

in the 20114 Jace for treat where Thous tout ristro ust, affic witter wels ymp dby Esafe

hever known it to fail in the most obstinate cases of this disease; Ir Fowler sums, to have been the first pysician to advise this medieine in agues, and on his recommendation many practitioners have used it, agreeable to his directions with the most pointed Succept; The preparation he advised is now introduced into the different Pharmacopaias under the name of Liquor arsenicalis; the dose is from two to twelve drops, nice, twice, thrice, a oftener in the day, according to the age, stougth, se of the putient, eight day's administration of the medicine, in the manner just mentioned, will generally be found sufficient for the radical cure of un intermittent; boundings, gripings, Swellings, and loathing of food, are the troublesome symptoms which now and then are produad by use of the arsenic, they generally disappear on a discontinuation of the drops,

asty esury KULIN . wsen ted sture Va. A. Litis Here ! My u. Viden

or only require the exhibition of gentle spiales, or forme warm cothartic, as the hetherstomps: From the observations which have been made on the use of ardenie in agues, there seems just grounds for believing it to be the most powerful of the remedies which have been recommended in this disease; It Thomas informs us that the inhabitants of a considerable portion of the country which surrounds Jalisbury, the place of his residence, are very subject to this fever, and he says that he has never been disappeinted in removing even those of an obstinate hature, by the ardenical delution, it is his constant practice to conjoin four or five drops of he bhis with each dode of it. In Lincolnshire, which is a fenny country, where agues are very prevalent, it is universally used, and with the most uniform success. Insuic has long been used by empiries with

hat Couls wet i 11/100 Englor Louis ted there tous luga Kuen Sup elify.

the greatest success in intermittents, with under the appellation of the lique-drop . The manner in which arraise acts in the cure of intermittents, De Darwin thinks, cannot be by its general stimulus, because ne interications or heat follows the use of it; nor by its paculiar stimulus on any part of the secting system, Since it is not in small doses succeeded by any increased evacuation or heat, and must therefore evert its power on the absorbent systems, He suspects its success in the cure of agues to depend on its stimulating the stomach unto stronger action, and thus by the afsoccation of that viscus with the heart and arteries, prevents the torpor of any part of the Sanguiferous dystem. There are a number of combinations, in which we may administer the arsonie; by Solution tracuicalifi. In Spir Si. Ir Cinchona you hu. ft. a tea-

shoonful to be taken three times a day.

be come at the miles because he interior live la fee Extel 6 water increased warmling of heat, and much and therefore exect the produce wither the wester Complenes the inspects its succession the week sque. and to defront on its oliver beling the Mondace ta tu cu; rely 1 Charge esens.

A arreire . acidigrii. Chian groin ext cort lineluna zifs. In ft. mass die in pill ht 32 me to be taken three times a day. Ir historice acidigrii. Jule Chingorin. Sapo Castill grxxii, ho. ft hafs. die in hill thirty - two, one to be taken three times a day. be by arsenici acidigriv. Japo Communisgrxxiii. In. ft. mast. divin hill thirtytwo, one to be taken three times a day. Jan informed by Er E. 4. Howell, that he made deven perfect cures out of fifteen cases of intamittents, by the application of the Fartar Emotic Plaster he says that he used no other medicine in the eleven cases, Jam not able to explain their mode of action in the cure of this disease, I suppose they not nearly on the same principle agan blister, only producing a greater degree of irritation. Thave hoticed in this fever that when an aufition breaks out, about the mouth, it is a favourable symptom and they generally recover

Mine Atin mille W. fu works miles mitry tuits there Eleus 241

prolly seen afterwards. Thould the patient be incommeded by a giddine for of the head, which is not uncommomy the case even after a slight attack of this fever, it may generally be relieved by relatiles und einchona in wine. During the fits of an intermittent, the patients strongth is to be spepperted by food of a light and untritive nature, such as the preparations of barly, Jago, panado, and the like; but when the fit is off, he may be allowed animal food, and a moderate use of wine; he change of air and situation has sometimes a happy effect in removing an intermittent, particularly if from a low marshy country to an elevated one. In intumnal intermittents it has been found, that the air of a large city or town is more favourable than that of the country, owing most likely to the great number of fires that are always burning. When now of the viscera are affected, cold# Juch 11/ 5 Smite test s VI the 1 4 die

bathing may be used with advantage. Having thus brought to a close, this imperfect treatise on intermittent fever; I hope you will treat it with lenity; Accept my thanks for the information, I have received from your betwees, on the Theory and Practice of Melicine; It each of the profe port of this university indwidnally, Plug leave here, to express the estien, and Sincere and grateful acknowledgments. of a pupil, for the many and great opportunities of improvement, which your betwees have afforded me. Accepte my afdurance. that Swish you may continue to enjoy, all the pleasure of Jucce ps, which you do discreedly merit.

